100

TWELFTH

LETTER

To SIR JOSEPH BANKS Baronet

President of the Royal Society,

ONTHE

Subject of Cochineal Infects, discovered at Madras,

By JAMES ANDERSON M. D.

With a Copper Plate Engraving Annexed, of the different Insects mentioned in the Letters, from the Drawings of BARON REICHEL.

Also an Engraving of the Opuntia Mejor Spinulis obtusts mollibus, & innocentibus, and the Plan of a Nopalry in the Bishoprick of Guaxaca in the Kingdom of Mexico, Extracted from the Second Volume of Sir Hans Sloane's History of Jamaica, for the use of Country Gentlemen who may be disposed to make Plantations, and are not in possession of that Work.

Vellega mutentur, Tyrics incocta Rubores.
Virg. Geor. Lib. 3.

MADRAS: Printed by CHARLES FORD.

MDCCLXXXVII.

To SIR JOSEPH BANKS Baronet Prefident of the Royal Society.

Concluded my last Letter with a supposition, that enough had been written to enable those who are fond of Natural Knowledge, to pursue the history of Progall Insects in this Country, farther, than it has been in my power to prosecute it;—yet, resecting that my object, in dictating so many Letters, had been sounded on a desire to excite a spirit of liberal enquiry in India—not to inform so learned a body as your Society,—I am still induced to regard, any farther advances I may casually make in this subject, in the same point of view,—and request you will consider the liberty I have taken in addressing you, as merely an attempt to obtain that countenance, without which, any Knowledge I could pretend to in a matter so abstracted from my usual Avocations, could hardly be waranted in the eye of the Public.

In revising papers received before I had resolved to trouble the Press, I find a Letter from Mr. Wood Surgeon of his Majesty's 72d Regiment, at Tanjore, dated the 14th of January last, with some Infects sound on the Portia Tree, which from the richness of colour he imagined were Lac Infects; they were shrivelled and dry from being conveyed so far, yet I could trace the envelope of Silk and abdominal rings sufficiently to declare them of the Cochineal kind.

Mr. Turings Letter of August 24th, recorded in mine of September 12th, being accompanied with the same infect found on the Portia Tree, I was much pleased a few days ago to find this Infect very numerous as well on the Bark, as the axis of the leaf of some Portia Trees in the Garden of Major Close of this Establishment, and within a Mile of Fort St. George, which on examination proves to be the Coccus Oogenes, defined in my Letter of the the 25th Ultimo.

It appears therefore this Coccus exists in an extent of 500 Miles from Tanjore to Masulipatam, and can live on four different Plants (viz.) the Phyllanthus Emblica, Minispermum Caraifotium, Parietaria Indica, and Portia Tree or Malva Arborea.

The Portia Trees Major Close told me were only planted cuttings about a month ago, but had already put forth tender branches a foot in length—From conventation with the Major who has made great proficiency in the Hindostan Tongue, I learn that the Opantia is known to them by the name Jungley Runley, of which I believe it is more proper, to take notice, as this Language is spoken by most Government Officers in every part of the Peninsula, and may help to affist our enquiries after the Cocnineal Thistie.

Father



Father Plumier, from the Sieur de Laet, and his own observation, declared to the World in the Years 1692 and 1693, that Cochineal was an Oviparous Insect, which was found on various. Trees in America, but that all kinds of Plants were not equally proper to supply them with Aliment capable of producing a thorough Redness, and therefore the Inhabitants of those Countries sed them on the Opuntium with Red juices, and that the choice for Cultivating Cocnineal ought to be made of such, whose Fruit produces the siness Red juice.

The accounts of Father Plumier corresponded with the general opinion, but no sconer did he appear to establish a rational idea of the culture, than interested Men found it expedient to mirrepretent him in France, and declare the Cochineal a Vegetable seed, of which some pretended discriptions were given.

The notions of Mankind respecting. Cochineal seem to have been in this manner perplexed with a doubt of its Vegetable or Animal Nature, till the Great Lewenhoeck by the help of his Glasses, discovered the ux Legs of an Insect in the dried Specimens which he examined. But it is a melancholy truth that a Paper said to be written by a Cochineal Merchant of Amsterdam at this period, found its way into the Transactions of the ROYAL SOCIETY of London, to excite the wonder where, or how, such a number of little Insects could be collected, which impressed an opinion it was much more probable, the Cochineal Imported from New Spain was a Vegetable feed, than an Insect, and the full belief of what they could not see with their own tyes, was reserved by the World, for the demonstration of Progall Insects by the Illustrious Reaumur.

Since his time the great improvements in Natural History, approaching to an Anatomical description even of Insects, has surnished us with some of this Class in several Countries, which were like his Progall Insects Viviparous, but the accounts of Father Plumier, the Coccus Adonidum quoted by Linnaus, from the memoirs of Geofrey, the Fauna Scoecica, and Ledermullers, with the account I have given of the Coccus Cogenes, will serve to prove a variety in this particular.

Fort St. George,

Oft. 18th, 1787.

I am with much Effecm,

Dear Sir,

Your obedient Servant.

JAMES ANDERSON.

